

"APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618110015-8

HOLLO, Istvan

Hydroglobe: a new type water tower. Epuleigepeszet 9
no. 3:90-93 '60.

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CIA-RDP86-00513R000618110015-8"

HOLLO, Istvan

Operation, treatment and maintenance of sewage purification installations. Hidrologiai Kozlony 40 no.2:139 Ap '60.

1. "Hidrologiai Kozlony" szerkeszto bizottsagi tagja.

PAPP, Ferenc, dr.; BOZSONY, Denes; VAGAS, Istvan; OROSZLANY, Istvan;
SCHULHOF, Odon, dr.; SZIGYARTO, Zoltan; HETENYI, Endre; HOLENYI,
Laszlo; GABRI, Mihaly; HOLLO, Istvan; KESSLER, Hubert, dr.;
WISNOVSZKY, Ivan; FINALY, Lajos; RAKTY, Istvan; SZALAY, Miklos;
IHRIG, Denes; KIRALY, Lajos; KERTAI, Ede

Report on the 1959 general meeting arranged by the Hungarian
Hydrological Society. Hidrologiai kozlony 40 no.4:345-348 Ag
'60.

1. Magyar Hidrologiai Tarsasag elnöke (for Papp). 2. Magyar
Hidrologiai Tarsasag fotitkara (for Bozsony). 3. "Hidrologiai
kozlony" szerkeszto bizottsagi tagja (for Vagas, Oroszlany,
Schulhof, Szigyarto and Hollo).

VAGAS, Istvan; HOLLO, Istvan

Society and technical news. Hidrologiai kozlony 42 no.3:
308,318,326,340 Ag '62.

1. "Hidrologiai Kozlony" szerkeszto bizottsagi tagja.

HOLLO, Istvan

An account of the 6th Congress of the International Water Supply Association. Hidrologiai kozlony 44 no.11:494-500 N '64.

1. Civil Engineering Designing Enterprise, Budapest, and Editorial board member, "Hidrologiai Kozlony."

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CIA-RDP86-00513R000618110015-8

HOLLO, Istvan

An account of the conference on the development of water
economy planning. Epuletgepeszet 14 no.1:32-33 F '65.

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CIA-RDP86-00513R000618110015-8"

KOREF, Oszkar, dr.; FEKER, Tibor, dr.; HOLLO, Istvan, dr.

Excretion of some neutral 17-ketosteroid fractions in cerebral
obesity. Orv. hetil. 105 no.17: 26 Ap'64

1. Budapesti Orvostudomanyi Egyetem, I. Belklinika.

*

HOLLO, I., dr.

Therapy of osteoporosis. Ther. Hung. 11 no.4:15-19 '63.

1. First Department of Medicine (Director: Prof. I. Rusznyak) ,
University Medical School of Budapest.

*

HOLLO I.

JUMESZ, M.; SZATMARI, E.; HOLLO, I.; SZUSZEKAR, I.

Hyaluronidase as antithyrotropic factor. Acta med. hung. Suppl.
6 no.1:52-57 1954.

1. I. Med. Klinik der Medizinischen Universitat, Budapest.

(HYALURONIDASE, eff.

on oxygen consumption & body weight in thyrotropin-
treated guinea pigs)

(METABOLISM

oxygen consumption, eff. of thyrotropin & hyaluronidase
in guinea pigs)

(PITUITARY GLAND, ANTHROR, hormones

thyrotropin, eff. on oxygen consumption in hyaluronidase-
treated guinea pig)

(BODY WEIGHT, eff. of drugs on

thyrotropin & hyaluronidase in guinea pigs)

Hollo, Istvan

HORANYI, Mihaly, dr.; HOLLO, Istvan, dr.; BEKENYY, Gyorgy, dr.

Unusual aspects of the effect of methylandrostenediol therapy of
nitrogen metabolism in myotonia dystrophica. Magy. belorv. arch.
7 no.1:15-20 Feb 54.

1. A Budapesti Orvostudomanyi Egyetem I. sz. Belklinikajának (igazgató:
Buzsnyák István dr. egyetemi tanár) és Ideg- és Elmeklinikajának
(igazgató: Nyiro Gyula dr. egyetemi tanár) közleménye.

(MYOTONIA ATROPHICA, ther.

methylandrostenediol, eff. on nitrogen metab.)

(NITROGEN, metab.

in myotonia dystrophica, eff. of methylandrostenediol)

(ANDROGENS, ther. use

methylandrostenediol in myotonia dystrophica, eff. on
nitrogen metab.)

HOLLO, Istvan, dr; JULESZ, Miklos, dr; ERDELYI, Jozsef, dr

A Morgagni-syndroma. Magy belorv. arch. 7 no.3:65-70 June 54.

1. A Budapesti Orvostudomanyi Egyetem I. sz. Belklinika Janak
kozlemenye Igazgato: Dr Rusznyak Istvan egyetemi tanar.
(HEPHERSTOSIS FRONTALIS INTERNA,)

JULESZ, Miklos, dr.; HOLLO, Istvan, dr.; JELLINEK, Harry, dr.; SZINAI,
Gyula, dr.

Morgagni syndrome. Magy. belorv. arch. 8 no.2:58-61 Apr 55.

1. Budapesti Orvostudomanyi Egyetem I. sz. belklinika (igazgato:
Dr. Rusznyak Istvan egyetemi tanar) es II. sz. korbonctani
intezetek (igazgato: Dr. Haranghy Laszlo egyetemi tanar)
kozlemenye.

(HYPERSOSTOSIS FRONTALIS INTERNA,
case report)

JULESZ, Miklos, dr.; SZATMARI, Eva, dr.; HOLLO, Istvan, dr.;
ROMHANYI, Gyorgy, dr.; Szuszekar, Judit

Effects of pituitary gland transplantation on Masugi's nephritis.
Magy. belorv. arch. 9 no.3:82-84 June 56.

1. A Budapesti Orvostud. Egyetem I. sz. Belklinik. kozl. (Igaz.:
Rusznyak, Istvan, dr. egyetemi tanar).

(GLOMERULONEPHRITIS, exper.

Masugi's nephritis, eff. of pituitary transpl. in
rabbits (Hun)

(PITUITARY GLAND, transpl.

eff. on Masugi's nephritis in rabbits (Hun))

JULESZ, Miklos, dr.,; SZATMARI, Eva, dr.,; HOLLO, Istvan, dr.

Decreasing effect of hyaluronidase on exophthalmos; preliminary publication. Orv. hetil. 97 no.2:43-44 8 Jan 56.

1. Az MTA Kiserleti Orvostudomanyi Kutato Intezete Korelettani Osztalyanak es a Budapesti Orvostudomanyi Egyetem I. sz. Belklinikajának (igazgató: Russnyak Istvan dr.) kozlemenye.

(EXOPHTHALMOS

progressive, ther. by hyaluronidase, intramus. admin.
(Hun))

(HYALURONIDASE, ther. use
exophthalmos, intramus. admin. (Hun))

JULESZ, Mikos; HOLLO, Istvan; SZATMARI, Eva

Puberal basophilism as a clinical entity. Magy. Tudom.
Akad. Biol. Orv. Oszt. Kozl. 8 no.1-2:133-135 1957.

1. A Budapesti Orvostudomanyi Egyetem I. sz. Belklinikaja.
(CUSHING SYNDROME
puberal basophilism as clin. entity (Hum))
(PUBERTY, dis.
same))

SZATMARI, E.; JULESZ, M.; HOLLO, I.; FARKAS, K.; SZUSZEKAR, J.

New studies on the inhibiting effect of hyaluronidase on thyroid function.
Acta physiol. hung. 11(Suppl):39-40 1957.

I. I. Klinik fur innere medizin und pathophysiologische abteilung des
forschungs institut fur experimentelle medizin der ungarischen akademie
der wissenschaften, Budapest.

(HYALURONIDASE, eff.

inhib. of thyroid funct. in guinea pigs, histol. manifest.
(Ger))

(THYROID GLAND, eff. of drugs on
hyaluronidase inhib. of funct. in guinea pigs, histol.
manifest. (Ger))

PAPP, M.; ZADORY, E.; SOLTI, F.; HOLLO, I.

Electric phenomena in the activities of the frog lymph heart. Acta physiol. hung. 12 no.1-3:153-160 1957.

1. Pathophysiologische abteilung des Forschungsinstituts fur Experimentelle Medizin der Ungarischen Akademie der Wissenschaften und I. Klinik fur Innere Medizin der Medizinischen Universitat, Budapest.

(LYMPHATIC SYSTEM
lymph heart of frogs, electric phenomena of funct. (Ger))

HOLIO, Istvan, dr.; STARK, Ervin, dr.; VAGI, Oszkarne, dr.

Effect of iodine on adrenal cortex function. Orv. hetil. 98
no.12:304 24 Mar 57.

l. A Budapesti Orvostudomanyi Egyetem I. sz. Belklinikajának
és a MTA Koki Korelettani Osztályának (igazgató: Rusznyák, István
dr. egyet. tanár, akadémikus) kozleménye.

(ADRENAL CORTEX, eff. of drugs on
iodine, on funct. in men & dogs (Hun))

(IODINE, eff.
on adrenal cortex funct. in men & dogs (Hun))

HOLLO, I.

PAPP, Miklos, (az orvostudomanyok kandidatusa); ZADONY, Erno; SOLTI, Ferenc;
HOLLO, Istvan

Electric phenomena connected with the function of the lymph heart of frogs. Magy. Tudom. Akad. Orv. Oszt. Kozl. 9 no.1:53-58 1958.

1. MTA Kiserletes Orvostudomanyi Kutato Intezet Korelettani Osztalya es
Budapesti Orvostudomanyi Egyetem I. sz. Belklinikaja.

(LYMPHATIC SYSTEM

lymph heart of frogs, electric action potential, ECG (Hung)

(FROGS AND TOADS

same)

(ELECTROCARDIOGRAPHY

of lymph heart of frogs (Hung))

FEHER, T.; KOREF, O.; HOLLO, I.

Paper chromatography of the neutral 17-ketosteroids in normal human urine. Acta med. Hung. 18 no.2:235-247 '62.

1. First Department of Medicine, University Medical School, Budapest.
(17-KETOSTEROIDS urine) (CHROMATOGRAPHY)

KOREF, Oszkar, dr.; FEHER, Tibor, dr.; HOLLO, Istvan, dr.

Study of neutral 17-ketosteroid fractions in the urine in various diseases. Magy. belorv. arch. 16 no.1:16-21 Mr '63.

1. Budapesti Orvostudomanyi Egyetem I. sz. Belklinika.
(17-KETOSTEROIDS) (URINE) (HYPERSTOSIS FRONTALIS INTERNA)
(AGROMEGALY) (CUSHING'S SYNDROME) (DIENCEPHALON)
(HERMAPHRODITISM) (HEPATITIS) (HYPERTRICHOSIS) (PEPTIC ULCER)
(TURNER'S SYNDROME) (HYPOGONADISM) (GYNECOMASTIA)
(ANDROGENITAL SYNDROME) (INFANTILISM)

MUNGAY

HALASZ, Istvan, M.D., and FEHÉR, Tibor, M.D., of the First Medical Department at the Medical University (Orvostudományi Egyetem I. Klinikái) in Budapest.

"Studies on Endocrinous Osteoporosis. Part 1: Voiding Studies on Androgen and 17-Astrosteroid in Post-Climacteric and Turner Syndrome-Type Osteoporosis"

Budapest, Orvosi Hetilap, Vol 104, No 7, 17 Feb 1963, pp. 294-297.

Abstract: A decrease in the rate of androsteron secretion was evident in nine out of ten postmenopausal osteoporosis patients and in one patient suffering from Turner syndrome-type osteoporosis. This finding represents an endocrinological difference between climacteric individuals afflicted or not afflicted with osteoporosis, respectively. Sixty-six references, including 5 Hungarian, 7 German, and 58 Western.

1/1

SOLTI, F.; HOLLO, I.; ISKUM, M.; NAGY, J.; RUZSA, F.

On the effect of female sex hormones on the circulation and
blood supply of the extremities in the dog. Acta med. acad.
sci. Hung. 21 no.3:337-341 '65.

I. I. Medizinische Klinik (Direktor: Prof. I. Magyar) der
Medizinischen Universitat, Budapest. Submitted March 29, 1965.

HUNGARY

HOLLO, Istvan, Dr, BUKI, Bela, Dr, FEHER, Tibor, Dr, KOREF, Oszkar, Dr; Medical University of Budapest, I. Medical Clinic (director: RUSZNYAK, Istvan, Dr) (Budapesti Orvostudomanyi Egyetem, I. Belklinika).

"Studies of Osteoporosis with Endocrine Correlations, IV. Postmenopausal 'Osteoporomalacia'."

Budapest, Orvosi Hetilap, Vol 107, No 13, 27 Mar 66, pages 591-593.

Abstract: [Authors' Hungarian summary] On the basis of i.v. Ca loading tests, the postmenopausal patients of the authors who suffer from bone atrophy were divided into two groups: true osteoporosis and "osteoporomalacia". It was pointed out that the two groups differ from each other not only with respect to the results of the Ca loading test but also in the excretion of the end products of androgen metabolism and possibly also in changes in the serum Ca and P level. On the basis of these studies, the use of androgenic hormones in the treatment of patients with "osteoporomalacia" does not seem to be sufficiently justified on theoretical grounds. 5 Hungarian, 11 Western references.

1/1

- 48 -

HOLLO, T.

Studies on postmenopausal osteoporosis. II. Effect of testosterone and ACTH loading on the urinary excretion of 17-ketosteroid fractions in postmenopausal osteoporosis. Acta med. Acad. sci. Hung. 20 no.3:237-243 1968

Studies on postmenopausal osteoporosis. III. Total serum cholesterol level in postmenopausal osteoporosis. I...: 245-247

I. First Department of Medicine (director: T. Rusznyak), University Medical School, Budapest.

HOLLO, I.; FEHER, T.

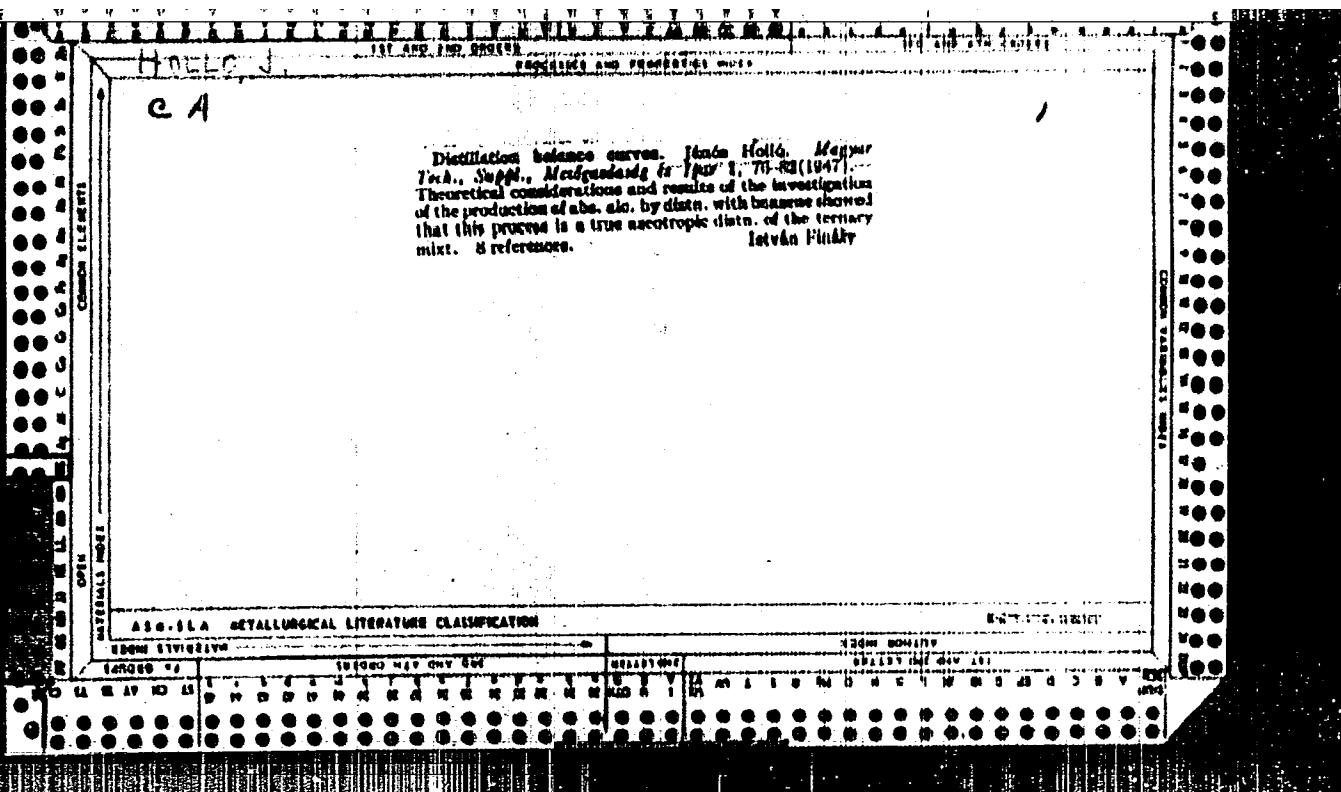
Studies on postmenopausal osteoporosis. I. Urinary excretion of 17-ketosteroid fractions in postmenopausal osteoporosis.
Acta med. Acad. sci. Hung. 20 no.3:233-236 '64

1. First Department of Medicine (Director: I. Rusznyak),
University Medical School, Budapest.

KOREF, Oszkar, dr.; FEHER, Tibor, dr.; HOLLO, Istvan, dr.

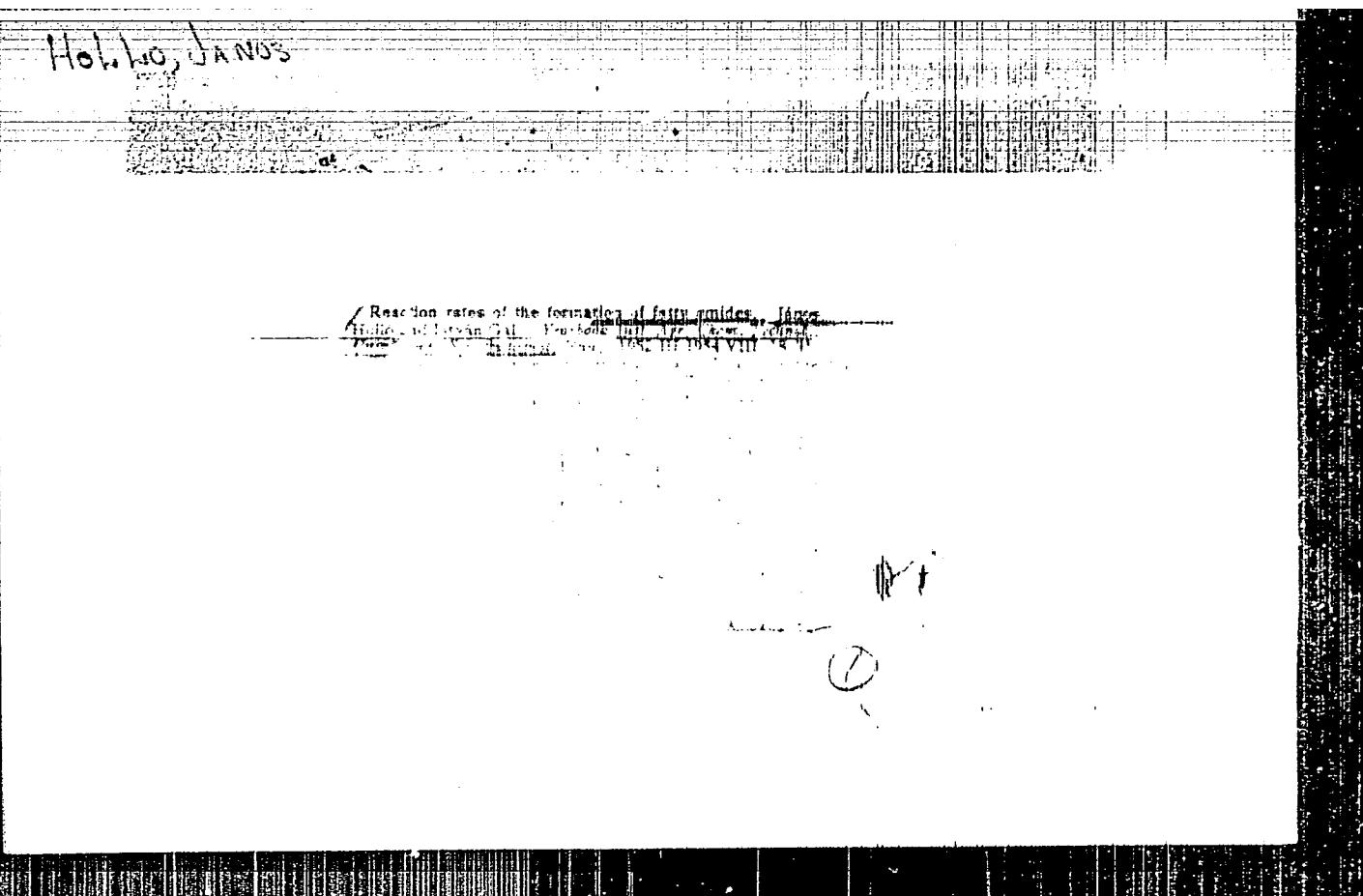
Changes in the excretion of dehydroepiandrosterone under
ACTH-loading in obesity. (Preliminary report). Orv. hatil.
106 no.24:1113 13 Je'65.

1. Budapesti Orvostudomanyi Egyetem, I. Belklinika.



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CIA-RDP86-00513R000618110015-8



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CIA-RDP86-00513R000618110015-8"

1410 TAPE 1

CONTINUATION

Sample 1 was hydrolyzed with 1N sulfuric acid at 37°C for 1 hour. The hydrolysate was analyzed by gas chromatography and the results are given in Table I. Sample 2 was hydrolyzed with 1N sulfuric acid at 37°C for 1 hour. The hydrolysate was analyzed by the method of Sebert and Blewett (1951) for glucose, fructose and total sugar. The results are given in Table II. From the relative concentrations of the three sugars, the corresponding degree of polymerization was calculated by standard equations based on the assumption that the products of the hydrolysis are random in nature (2). Next a formula was derived for a polyglucosan chain assuming that all the bonds between the polyglucoside chains are of equal strength and that the rate of bond split off at any given time is proportional to the no. of the unpaired bonds as shown by equations (1), (2), (3) and (4). The degradation of the polyglucosan chain due to the hydrolytic treatment is given in Table III. The results are given in Table IV.

H. C. J. S. A. L. O. S.

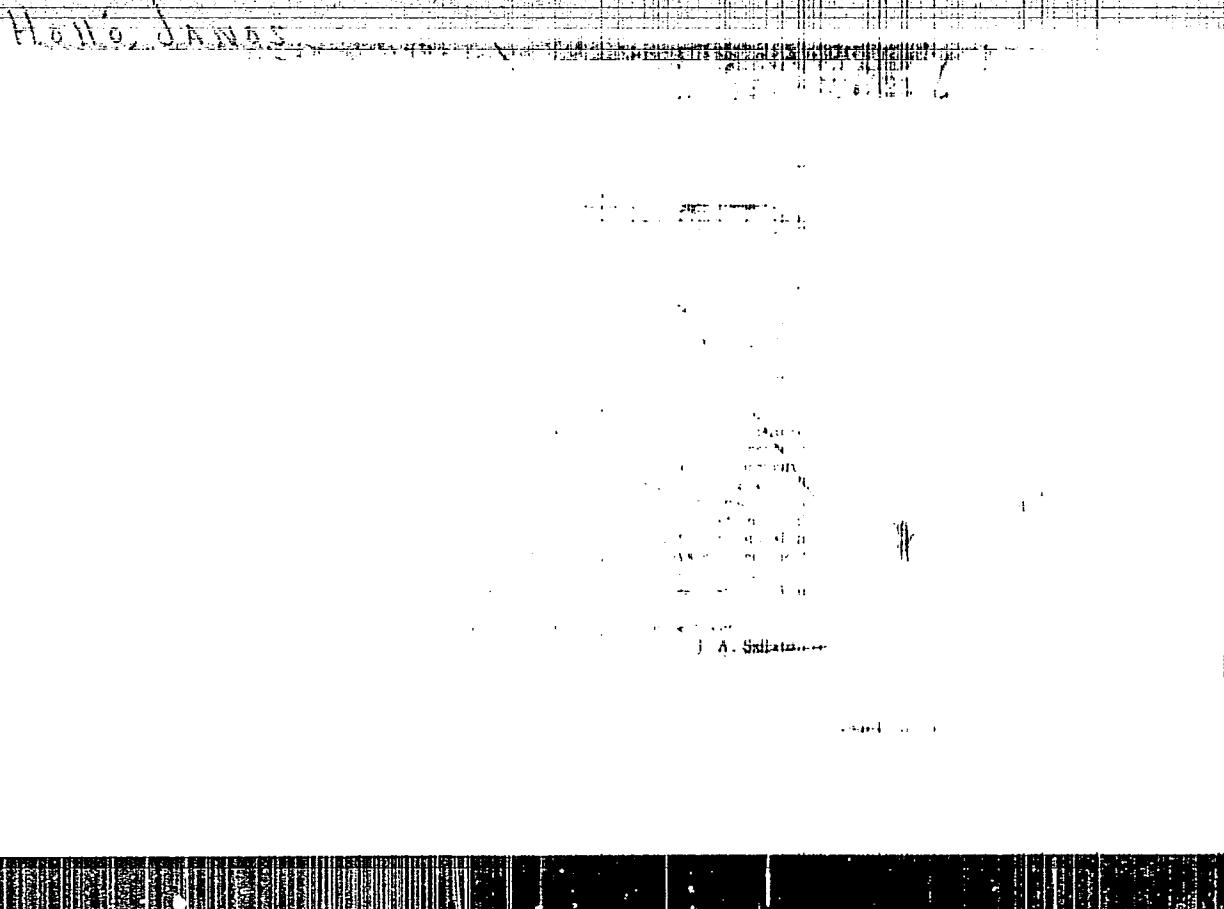
Japan 8/26/54 (1)

July 1954 - Descriptive methods available for the representation of quaternary systems in processes like distillation, etc., are critically reviewed. A new system is developed and demonstrated for the binary systems, and terms the method "tetrahedral". For the ternary systems, and the points inside the tetrahedron represent the four component systems. To get the sample of any point within the tetrahedron, the relevant phase diagram is projected onto 2 planes. The method is also demonstrated for several quaternary systems. [A.S.]

R. G. [Signature]

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HULLO, JANES

Theoretical principles of the dehydration of ethanol with
methylene chloride. Janos Hulló and János Wieg.
Yearbook Agr. Chem. Techn., Univ. Tech. Budapest,
Budapest, 1952 III-Term. VIII, p. 61. The solvent mixture
of the tertiary system $\text{Et}_2\text{O}-\text{CH}_2\text{Cl}_2-\text{H}_2\text{O}$ was added at 21°
 H_2O was added with the Fischer reagent EtOH by measuring
the ΔH° of the temperature difference. The equil. curves
were plotted from the data obtained with the modified
DSC method at 22°C. The existence of an
equilibrium between Et_2O and CH_2Cl_2 was demonstrated.

$t = 25.0^\circ$ $\Delta H^\circ = -14.2 \text{ cal/gm}^\circ$ No exotropic reaction
 EtOH was added at 22°C. A. Szegedi

HOLLOW JAMES

The microbial deterioration of soap (Preliminary publication) Miles H. C. and Johnson, J. P. S. In: *Agro-Chemical Pesticides*, Vol. 1, No. 4, Part 4, Hong Kong, 1952, pp. 104-118. (See also "Black bread and black butter" [sic] which occurs in 1952 after unusually long storage, in particular when the bread is stored in warm temperatures, which may promote the development of moulds. These are especially common in tropical countries, e.g., in Ceylon, where the climate is often very hot and humid. The moulds are usually removed by soaking the bread in water. The bread is then dried and eaten with traces of Po.

(1)

HOLLO, J.

Hungarian Technical Abst.
Vol. 6 No. 1
1954

17. A few questions on the production of glutamic acid - A glutaminic acid hydrochloride -
J. Hulászai Nyugyi (Food Industry - Elements
Ipar - Vol. 7, 1953, No. 3, pp. 82-83, 4 figs.)

Systematic investigations were conducted on the industrial production of glutamic acid and its derivatives. It has been ascertained that hydrolysis could be best carried out by the application of hydrochloric acid of spec. gr. 1.182, since more diluted acids have a detrimental effect on the yield. A much purer glutamic acid can be obtained with a 2.5 fold amount of acid and by adding 1% stannous chloride. Hydrolysis takes 6 hours. It is advisable to clarify the liquor with activated carbon, the quantity of which should constitute 15 to 18% of the solids of the glucose. The crude glutamic acid hydrochloride may be recrystallized from a fivefold quantity of 6 n hydrochloric acid. Neutralizing the solution of the hydrochloride to the iso-electric point (pH 2.8 to 3.4) with sodium hydroxide the free glutamic acid separates. 70 to 75% of the theoretical yield can be derived at by starting from crude hydrochloride and 94% by recrystallizing the product from hydrochloric acid.

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CIA-RDP86-00513R000618110015-8

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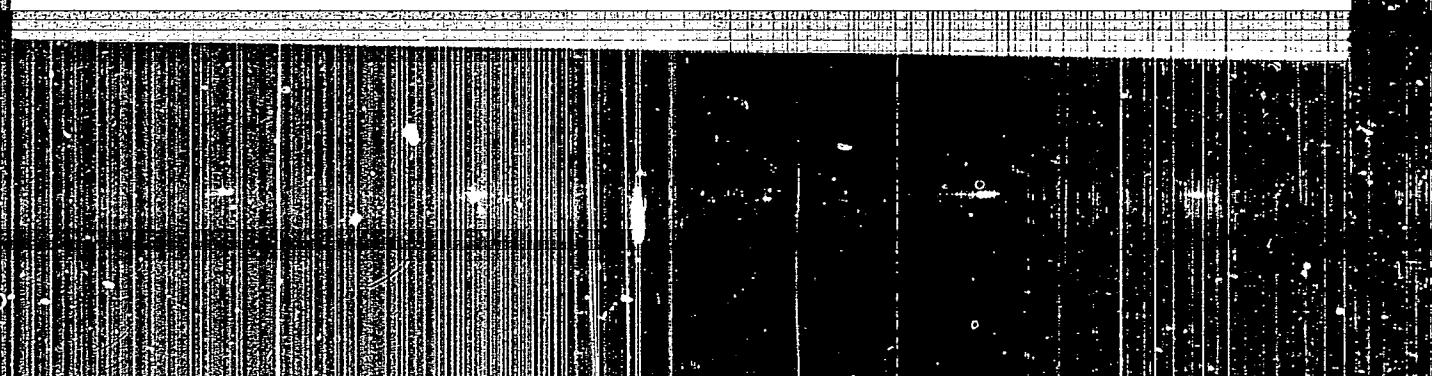
HOLLO, J.: TOTI, J.: GAL I.

Experiments on determination of optimum conditions for potato storage. p. 357.
Vol 9, no. 9, Oct. 1955. ELEMÉZESI IPAR. Budapest, Hungary.

So: Eastern European Accession. Vol 5, no. 4, April 1956

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CIA-RDP86-00513R000618110015-8



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CIA-RDP86-00513R000618110015-8"

Hollo Janos

HUNGARY/Chemical Technology - Chemical Products and Their
Application. Carbohydrates and Refinement.

I-11

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2797
Author : Hollo Janos, Szejtli Jozsef
Inst :
Title : Rapid Amperometric Determination of Starch.
Orig Pub : Elelm. ipar, 1956, 10, No 4, 98-100

Abstract : Starch (S) was determined amperometrically by titration with 0.01 N solution of I. The absorption of I by potato S is of $4.46 \pm 0.04\%$, by wheat S of $5.45 \pm 0.05\%$. The method gave well reproducible results (provided that the adsorption of iodine by the given variety of S is known) which were similar to the results of the hydrolysis method (error $\pm 1.0\%$).
See also RZhKhim, 1956, 63523.

Card 1/1

HOLLO, J.; TENDERDY, R.

Investigation of the microbiological effect of 1,4-naphthoquinone-type compounds substituted in 2 positions. p.282. ELEMÉZÉSI IPAR. Budapest. Vol. 10, no. 9, Sept. 1956.

SOURCE: East European Accessions List (EEAL), Library of Congress
Vol. 5, No. 12, December 1956

"APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618110015-8

HELLO, 4.

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Distr: 4B3d/4E2c(1) 7 11 MAY

The vapor-liquid equilibrium of the quaternary system
ethanol+acetone+toluene+¹I. Holec, Gy. Emmer,
Kertesz and J. Wies, Tech Univ., Budapest, Hung
Acta Chim Acad Sci Hung 37: 37-51, 1967 (in English)
Liquid and vapor composition at 2 or more temp., were measured
for all the possible binary, ternary and quaternary
systems selected from the components EtOH (I), heptane
¹I, toluene (II), and PhNH₂ (IV). The results were used
to calculate the interaction parameters between the

6002. Work (C.4, 49, 46305). The van Laar constants were calculated for the systems I-II, I-III, and II-III. In binary systems, the following values were obtained for the quantity A_{II} , the log of the activity coeff., where the subscript II denotes the substance, the log of whose activity coeff. is given. The subscript p denotes the 2nd component of the binary system. Subscript 4 refers to the substance in IV. The activity coefficients of the other components were calculated by the van Laar equation. The following values were obtained:

| System | $\log A_{II}$ | $\log A_{I}$ | $\log A_{III}$ | $\log A_{IV}$ |
|--------|---------------|--------------|----------------|---------------|
| I-II | -0.12 | -0.05 | -0.05 | -0.05 |
| I-III | -0.12 | -0.05 | -0.05 | -0.05 |
| II-III | -0.12 | -0.05 | -0.05 | -0.05 |

The calculated values of $\log A_{II}$ are in close agreement with the experimental values.

HOLLO, J.

POLAND/Analytical Chemistry. Analysis of Organic Substances.

E-3

Abs Jour: Ref. Zhur.-Khimiya, 1958, No II, 35971.

Author : J. Hollo, I. Szejtli

Inst : Not given.

Title : Study of Iodine Absorption by Amylose.

Orig Pub: Przem. spozywczy, 1957, II, No 10, 429-433.

Abstract: A new accurate and specific method of starch (I) determination through amperometric titration by 0.005-0.01 n. I_2 solutions with Pt-electrodes is offered. This method is also applied for a quantitative control of amylose (II) aging process, which is accompanied by a proportional diminution of the capacity of II to react with I_2 , and for the study of interaction between II and I_2 . Iodine joins at first the internal sphere of the chains of II, which does not change the viscosity of the II solution,

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18

Card : 1/3

POLAND/Analytical Chemistry. Analysis of Organic Substances.

E-3

Abs Jour: Ref. Zhur.-Khimiya, 1958, No II, 35971.

and then the surface of the chains of II, which causes an increase of II solution viscosity. Alkali decreases the capacity of I to interact with I_2 , therefore its presence for the preparation of the indicator solution of II should be avoided. In order to carry out the amperometric titration, to the measured quantity of 4 to 6 mg of I, 25 ml water are added and heated; 5 ml of 1 n. HCl are added after cooling, electrodes are installed and the mixture is titrated by stirring it with the I_2 solution and plotting a titration curve in a coordinate system: titrants volume (ml) - force of the current (mca). The content of I (in %) is computed according to the formula $X = B \cdot 100/A$, where A is the amount of I_2 absorbed by the pure I, B-the amount of I_2 , absorbed by the examined sample determined

Card : 2/3

POLAND/Analytical Chemistry. Analysis of Organic Substances.

E-3

Abs Jour: Ref. Zhur.-Khimiya, 1958, No II, 35971.

by the amperometrical titration. It is found that $A = 5.45 \pm 0.05\%$. The error in determination of I does not exceed $\pm 1\%$.

Card : 3/3

19

Hollo, J.
HUNGARY / Physical Chemistry. Thermodynamics. Thermo-
chemistry. Physico-Chemical Analysis. Phase
Transition.

B

Abs Jour: Ref Zhur-Khimiya, No 11, 1958, 35368

Author : Hollo Janos, Ember Gyergy, Lengyel Tamas, Wieg
Andras

Inst : Magyar Tud. Akad.
Title : Investigation of the Equilibrium of Vaporous and
Liquid Phases of the Quaternary System Ethanol-
Heptane-Toluene-Aniline.

Orig Pub: Kem. Tud, Oszt. Kozl., 1957, 8, No 4, 449-475

Abstract: The equilibrium of the quaternary system ethanol (I)
-heptane (II)-toluene (III)-aniline (IV) has been
experimentally and theoretically investigated. A
device for the determination of the liquid-vapor
equilibrium is described. The Margules and Van Laar

Card 1/3

7

HUNGARY / Physical Chemistry. Thermodynamics. Thermo-
chemistry. Physico-Chemical Analysis. Phase
Transition.

B

Abs Jour: Ref Zhur-Khimiya, No 11, 1958, 35368

Abstract: equation constants have been determined for the systems I-II, I-III, II-IV. These equations are not applicable to the highly asymmetric systems I-IV, III-IV and II-IV. The complete equilibrium curve for the systems I-IV, III-IV has been plotted in accordance with the experimental data with the aid of the Skelland-Hamer equation. Only the Margules equation can be applied in calculating the quaternary system. The Margules constant for the II-IV system has been determined by the indirect Carlson-Coburn method (according to the satu-

Card 2/3

HUNGARY / Physical Chemistry. Thermodynamics. Thermo-
chemistry. Physico-Chemical Analysis. Phase
Transition.

B

Abs Jour: rated vapor isotermic pressure-composition relation). Various possibilities of calculating the equilibrium of the quaternary system are discussed. A new calculating method, developed by the authors is reported. It consists in the following: the constants indispensable to the calculation and pertaining to ternary systems, have been calculated from the experimental measurements of the quaternary system equilibrium data, with the application of an equation, containing activity coefficient logarithms. Although the new method calls for the conducting of one measurement for the quaternary system, it eliminates the measuring and calculating of triterinary systems. The method is simple and produces accurate results.

Card 3/3

6

HOLLO, J.

Theoretical and practical problems on the vapor-liquid equilibrium of three nonideal quaternary systems. I.
Hollo (Polytech. Univ., Budapest, Hung.). *Perezovs
Zvesti. 2, 113-28 (1958).*—A modified Othmer still suitable
for use with both homogeneous and heterogeneous liquid sys-
tems was used. Three quaternary systems were investigated
at atm. pressure: EtOH-benzene-heptane-water, EtOH-
heptane-toluene-aniline, and Me₂CO-EtOH-H₂O-BuOH.
However, no exptl. data are given for the last system. A
graphic method for the representation of the quaternary
data based on double orthogonal projection (Hollo and
Ember, *C.A. 49, 144584*) is described briefly. The constns.
in the binary system 3-suffix Margules equations were
calcd. for the 16 binary systems involved. The quaternary
system 3-suffix Margules equations were then used with the
binary constns. previously calcd. and one exptl. quaternary
constn. to solve for the ternary constns. Calcd. and exptl.
results are compared for the quaternary systems. The
method is not satisfactory for the Me₂CO-EtOH-H₂O-
BuOH system. J. T. Bancher.

3

J. T. Bancher

3

15. The Determination of the Vapour-Liquid Equilibria of Binary Azeotropes.
(In English) J. Hollo, T. Lengyel. Periodica Polytechnica, Chemical Engineering,
Vol. 2, 1958, No. 3, pp. 173--182, 7 Figs., 2 Tabs.

The vapour-liquid equilibria of binary homoazeotropic systems were determined and the experimental data were checked by calculation. In the course of the computations, a graphic method giving sufficient accuracy was employed for the determination of the binary Margules constants. It was shown that the equilibria of the systems heptane-butanol, toluene-butanol, toluene-pyridine and pyridine-butanol may be satisfactorily described by a Margules equation of 3 indices while this method of calculation cannot be applied to the heptane-pyridine system. The Margules constants obtained as the result of the calculations and the data of equilibrium are tabulated.

(Retyped clipped abstract)

jw
Card 1/1

1
1 vapor-liquid equilibrium of quaternary systems. J.
Hollo and T. Lengyel (Tech. Univ., Budapest, Hungary).
Collection Czechoslov. Chem. Commun. 23, 1735-43 (1958)
(in German).—Vapor-liquid equil. were studied in the 3
following nonideal quaternary systems: (1) EtOH-C₆H₆-
n-C₄H₁₀-H₂O, (2) MeCO-EtOH-H₂O-BuOH, and (3)
EtOH-heptane-toluene-aniline. The app. for detg. the
equil. functioned according to the recirculation principle
and was a modification of the Otthmer app. Methods were
developed for semimicro analysis of the quaternary systems
and for the binary and ternary systems that belong to them.
H₂O was detd. by the Karl Fischer method, alc. was detd.
by oxidn. with K₂Cr₂O₇, followed by ferrous sulfate titration;
acetone was detd. acidimetrically by hydroxylamine-HCl
soln., and aniline was detd. as N₂ by the Kjeldahl method.
For the 4-component system the relative anal. error did not
exceed 2%. The time required for each analysis was 1-3
hrs. The behavior of the systems from the point of view of
state was presented graphically, and a method of algebraic
characteristics based on activity coeff. of the components
expressed by means of the Margules 3rd-order equation
was proposed.

Gladys S. May

HOLLO, J.; FEJES, P.; SZEJTLI, J.

Newer data on the chemistry of starch fractions.I. (To be contd.) p. 425.

Magyar Tudomanyos Akademia. Kemial Tudomanyok Osztalya. KOZLEMENYEI. Budapest,
Hungary, Vol. 10, No. 4, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 7, July 1959.
UNCL

Hollo, J.; Szejtli, J.

Newer data on the chemistry of starch fractions.II. p. 437

Magyar Tudomanyos Akademia. Kemial T udomanyok Osztalya. KOZLEMENYEI. Budapest,
Hungary, Vol. 10, No. 4 , 1958

Monthly List of East European "cessions (EAI) LC, VOL. 8, No. 7, July 1959

Uncl.

Distr: 4E2c(j)

19. Investigations on the vapour-liquid equilibrium of the quaternary system ethanol-heptane-toluene-aniline.
(In English) J. Holló, Gy. Tamás, T. Tihanyi, A. Varga, Acta Chimica Academiae Scientiarum Hungaricae, Vol. 13, 1958, No. 3-4, pp. 307-333, 7 figs., 11 tabs.

A method has been elaborated for the reliable analysis of the quaternary system, subsequently the vapour-liquid equilibria of the corresponding binary and ternary systems and that of the quaternary system were examined.

In detail, the probable binary and ternary systems were investigated in respect to the application of theoretical calculations, the values of the corresponding Margules constants and in certain cases those of the van Laar constants were established. On the basis of the binary constants a new method of calculation was evolved for the determination of quaternary equilibria using the three-index Margules equation.

HOLLO, JANOS

E-1

17593

COUNTRY:
CATEGORY:

Hungary

ABS. JOUR.

RZKhim, No. 5 1960, No.

AUTHOR
INST.
TITLE

Hollo, J., Lengyel, T., and Uzonyi, G.
Not given
The Analysis of the System Heptane-Toluene-Pyridine
-n-Butanol

ORIG. PUB.

Magyar Kem Lapja, 13, No 10-12, 440-443 (1950)

ABSTRACT

A method is described for the determination of the content of the individual components in the system heptane (I)-toluene (II)-pyridine (III)-n-butanol (IV) from diagrams giving the dependence (III)-n-butanol index of refraction (IR) on the concentration of the the binary systems I-III, III-IV, and II-IV, and for the dependence of the density on the concentration for the system I-IV, as well as from diagrams giving the dependence of the surface tension on the concentration for the system I-III and from

APG: 1/3

COUNTRY
CATEGORY

Hungary

R-3

ABS. JOUR.

RZhKhim, No. 5 1960, No.

17597

AUTHOR
INST.
TITLE

CRIG. PUB.

ABSTRACT

constant-IR curves for the ternary systems I-III-IV and II-III-IV; in the last-indicated ternary systems, an auxiliary titrimetric determination of the concentration of III by a method described earlier (RZhKhim, 1954, No 12, 51133) is also carried out. The four-component mixture is separated by three-repeated extraction with water into a phase containing I and II (A), and a phase containing the system water-III-IV (B). The I : II ratio is determined in phase A from IR measure-

135

CARD 2/5

COUNTRY : Hungary

CATEGORY :

ARS. JOUR. : RZKhim, No. 5 1960, No.

E-5

AUTHOR :

INST. :

TITLE :

17593

ORIG. PUB. :

ABSTRACT : ments; the III content in phase B is determined for an aliquot portion and the IR of the remainder phase B is also measured.

S. Rozenfel'd

CARD: 3/3

Hollo, J.; Szejtli, J.; Gantner, O.

Investigation of the retrogradation of amylose. In English. p.95

PERIODICA POLYTECHNICA. CHEMICAL ENGINEERING. (Budapesti Műszaki Egyetem)
Budapest, Hungary. Vol.3, no.2, 1959

Monthly List of East European Accessions (EEAI) 1C, Vol.8, no.11
November 1959
Uncol.

RELEASER'S SIGNATURE

Vapor-liquid equilibrium of the system toluene-pyridine-methanol. I. 20, 40, and 60°C. Lengyel, Tech Univ.

1

Chemical and Process Engineering Department, Technical University of Budapest, H-1521 Budapest, Hungary

(Received 19 January 1969; accepted 17 April 1970)

Abstract: Vapor-liquid equilibrium data are presented for the system toluene-pyridine-methanol at 20, 40, and 60°C. The data were obtained by a new method based on the use of a two-phase equilibrium column. The vapor pressure of the pure components was measured by the same method. The equilibrium data are plotted in a form suitable for the calculation of distillation and absorption processes. The effect of temperature on the equilibrium data is discussed.

The authors wish to thank Dr. J. Lengyel for his permission to publish this work.

Keywords: vapor-liquid equilibrium, toluene, pyridine, methanol, distillation, absorption.

HOLLO,J., prof., dr. (Budapest); SZEJTLI,J. (Budapest); GANTNER,G.S.
(Budapest)

The mechanism of the retrogradation of amylose. Periodica
polytechn chem 3 no.3:163-166 '59. (EPAI 9:6)

1. Institute of Agricultural Chemical Technology Polytechnical
University, Budapest.
(Amyloses)

HOLLO, J.; SZENTILYI, J.; GANTNER, G.

Newer data on the chemistry of starch fraction. III. Retroradation of
amylase. p. 165.

KÖZLÉNYEI. Magyar Tudományos Akadémia. Kémiai Tudományok Szóhalya.
Budapest, Hungary. Vol. 11, no. 4, 1959.

Monthly List of east European Accession (EWA) LC, Vol. ~~15~~, no. 2, Feb; 1960
Uncl.

HOLLO, J.; BABOS, Z.

"Tasks of the Scientific Association of the Agricultural and Food Industry
in supporting the collective-farm movement." p. 141.

ELELMEZESI IPAR. (Mezogazdasagi es Elelmiszeripari Tudomanyos Egyesulet).
Budapest, Hungary, Vol. 13, No. 5, May 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August
1959.
Unclu.

HOLLO, Janos, Dr., egyetemi tanar; BABOS, Zoltan

Tasks for the Scientific Association for Agricultural and Food
Industries in assisting the collective farm movement. Elelm
ipar 13 no.5:141-142 My '59.

1. A Mezogazdasagi- es Elelmiszeripari Tudomanyos Egyesulet
fotikara (for Hollo). 2. A Mezogazdasagi- es Elelmiszeripari
Tudomanyos Egyesulet elnöke, miniszterhelyettes.

HOLLO, J., prof. (Budapest XI, Gellert ter 4); LENGYEL, T. (Budapest XI,
Gellert ter 4)

Some problems in projecting industrial distillation equipment;
purification of 1,1,2,2-tetrachloroethane and 1,1,2-trichloroethylene.
Periodica polytechn chem 4 no.2:125-140 '60. (EEAI 10:4)

1. Institute for Agricultural Chemical Technology, Polytechnical
University, Budapest.
(Distillation) (Tetrachloroethane)
(Trichloroethylene) (Systems (Chemistry))

HOLLO, J., Prof. (Budapest); LENGYEL, T. (Budapest); UZONYI, H.M. (Budapest)

Investigation on the system triethyl amine-acetic acid. Periodica
polytechn chem 4 no.3:173-182 '60. (EEAI 10:5)

1. Institute for Agricultural Chemical Technology, Polytechnical
University, Budapest.
(Systems (Chemistry)) (Triethylamine)
(Acetic acid) (Carboxylic acids)

HOLLO, J., prof. (Budapest); SZEJTLI, J. (Budapest); GANTNER, G.S. (Budapest);
~~FERGUSON~~ LASZLO, E. (Budapest)

Cohesion of starch granules. Periodica polytechn chem 4 no.4:263-285
'60. (EEAI 10:5)

1. Institut fur Landwirtschaftlich-Chemische Technologie der
Technischen Universitat, Budapest.
(Cohesion) (Starch) (Enzymes) (Light) (Granules)

HOLLO, Janos, a kemial tudomanyok doktora (Budapest); SZEJTLI, Jozsef (Budapest); LASZLO, Klemer (Budapest)

Newer data on the chemistry of starch fractions. V. Decomposition of starch in alkaline agent. Kem tud kozl MTA 13 no.1:1-10 '60.
(EEAI 10:2)

1. Budapesti Muszaki Egyetem, Mezogazdasagi Kemial Technologial Tanszek.

(Starch) (Glycosides)

19

5

✓ Reflection of β -particles. I. β -Particle reflections by organic compounds. János Holló, József Szellő, and Attila Vértes (Műszaki Egyetem, Budapest, Hung.). Magyar Kém. Folyoirat 66, 9-13 (1960).—An app. was constructed to enable the measurement of the reflected β radiation from org. powders or liquids per unit time. To calc. the effects of the anomalous behaviour of H, which absorbs rather than reflects the radiation, the "corrected H ordinal no." ($ZH = -7.434$) was introduced. By substituting this ZH value in the equations developed by Müller (Cr 51, 11109a) the reflection of H-contg. org. compds. can be calc'd. with greater accuracy.

L. G. Arras

of

HOLLO, Janos, Dr.; NYESTE, Laszlo

Production and use on enzyme preparations from microorganisms.
Elelm ipar 14 no.3:65-74 Mr '60.

1. Budapesti Muzsaki Egyetem, Mezogazdasagi Kemial Tanszek.

"APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618110015-8

HOLLO, Janos

"Agricultural chemistry" by Janos Di Gleria. Reviewed by Janos Hollo.
Magy kem folyoir 66 no.8: Ag '60.

APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618110015-8"

HOLLO, J., prof., dr. (Budapest XI., Gellert ter 4); LENGYEL, T., dr. (Budapest XI., Gellert ter 4); MESZAROS, A. (Budapest XI., Gellert ter 4)

Conditions for executing computations on binary vapour-liquid equilibria. Periodica polytechn chem 5 no.1:35-39 '61.

1. Department of Agricultural Chemical Technology, Polytechnical University, Budapest.

HOLLO, J., prof. (Budapest XI., Gellert ter 4); LENGYEL, T. (Budapest XI., Gellert ter 4)

Development and use of a three-suffix Scatchard-Hamer equation for quaternary systems. Periodica polytechn chem 5 no.4:305-311 '61.

1. Department of Agricultural Chemical Technology, Polytechnical University.

HOLLO, J., prof.,dr. (Budapest XI., Gellert ter 4)

"Evaporation and droplet growth in gaseous media" by
N.A. Fuchs. Reviewed by Prof. Dr. J. Hollo. Periodica
polytechn chem 5 no.4:358-359 '61.

1. Department of Agricultural Chemical Technology, Polytechnical
University.

HOLLO, Janos; NYESTE, Laszlo

Some questions in principle of antibiotics research.
Magy kem lap 16 no.7:301-307 Jl '61

1. Budapesti Műszaki Egyetem Mezőgazdasági Kémiai Technológiai
Tanszék.

"APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618110015-8

HOLLO, Janos, dr.

In commemoration of the 65th birthday of Professor Max Ullmann.
Elelm ipar 16 no.11:321-322 N '80.

APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618110015-8"

"APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618110015-8

Prof. Dr. Heiko Schmid, 1964; obituary. File 1 part 18 no. 12101
N - 12.

APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618110015-8"

HOLLO, Janos, dr.; SZEJTLI, Jozsef, dr.; LASZLO, Elemer

Isotope laboratory exercises in teaching biological technology.
Elelm ipar 16 no.11:322-323 N '62.

1. Budapesti Muszaki Egyetem Mezogazdasagi Kemial Technologial
Tanszek.

HOLLO, Janos, dr.; SZEJTLI, Jozsef, dr.; LASZLO, Elemer; GANTNER, Gyulane;
KOMLOS, Sandor

Starching in laundry. Pt. 2. Magy textil 15 no.2:64-68 F '63.

1. Budapesti Muszaki Egyetem (for Hollo, Szejtli, Laszlo,
Gantner). 2. Fovarosi Patyolat Vallalat (for Komlos).

KOMLOS, Sandor; SZEJTLI, Jozsef, dr.; HOLLOW, Janos, dr.

Starching in laundries. Pt. 3. Magy textil 15 no.7:312-314 Jl '63.

1. Fovarosi Patyolat Vallalat (for Komlos).
2. Budapesti Muszaki Egyetem (for Szejtli and Hollo).

CZIBOR, Janosne; HOLLO, Janos, dr.

The 7th general meeting of the Scientific Association for Agricultural and Food Industries. Elelm ipar 12 no.6/7:165-169 Je-Jl '58.

1. Mezogazdasgi es Elelmiszeripari Tudomanyos Egyesulet titkara (for Czibor).
2. Mezogazdasgi es Elelmiszeripari Tudomanyos Egyesulet fotitkara (for Hollo).

HOLLO, J., prof. dr. (Budapest, XI., Gellert ter 4); LASZLO, E., dr.
(Budapest, XI., Gellert ter 4); SZEJTLI, J., dr. (Budapest,
XI., Gellert ter 4); TOTH, M. (Budapest, XI., Gellert ter 4);
VANDOR, E. (Budapest, XIV., Telepes utca 53)

Newer contributions to the chemistry of starch fractions.
Pt. 14. Periodica polytechn chem 7 no.4:311-316 '63.

1. Lehrstuhl fur Landwirtschaftlich-Chemische Technologie,
Technische Universitat, Budapest.

HOLLO, Janos, dr.; NYESTE, LASZLO, dr.

Some theoretical questions relating to the continuous fermentation.
Elelm ipar 18 no.3:69-79 Mr '64

1. Chair of Agricultural Chemical Technology, Budapest Technical
University, Budapest.

HOLLO, Janos, prof., dr. (Budapest, XI., Gellert ter 4); LASZLO, Elemer, dr.
(Budapest, XI., Gellert ter 4); HOSCHKE, Agoston (Budapest, XI.,
Gellert ter 4)

Biosynthesis of starch. Pt.1. Periodica polytechn chem 8 no.3:
213-219 '64.

1. Lehrstuhl fur Landwirtschaftlich-Chemische Technologie
der Technischen Universitat, Budapest. Submitted March 23,
1964.

HUNGARY

KARPATI, Pal, Dr., and HOLLO, Janos, Dr., National Institute of Cardiology (Orszagos Kardiologial Intezet) (Director: [the late] GOTTSSEGEN, Gyorgy, Dr.), Pediatric Department (Gyermekosztaly) (Physician-in-Chief: KAMARAS, Janos, Dr.).

"The Complete Congenital Ventricle Chamber Block"

Budapest, Orvosi Hetilap, Vol 107, No 25, 19 Jun 1966, pp 1167-1169.

Abstract: The complete congenital ventricle-chamber block was discussed in terms of references in the literature, 19 cases in the authors' experience, and control investigations performed during the last years. The incidence, clinical picture, coincidence with congenital defects, prognosis, and therapy were discussed. 22 references, including 5 Hungarian, 1 German, and 16 Western.

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- 6 -

HUNGARY

HOLLO, Janos, Dr., and KARPATI, Pal, Dr., National Institute of Cardiology (Orszagos Kardiologial Intezet) (Director: [the late] GOTTSSEGEN, Gyorgy, Dr.), Pediatric Department (Gyermekosztaly) (Physician-in-Chief: KAMARAS, Janos, Dr.) [location not given].

"Disturbances of the Stimulation Path in the Ventricle Chamber in Congenital Defects"

Budapest, Orvosi Hetilap, Vol 107, No 25, 19 Jun 1966, pp 1170-1171.

Abstract: The disturbances were studied in 396 children with congenital defects by examination of their electrocardiograms. These cardiograms were compared with those of healthy children. It was observed that the stimulation path lengthened significantly in cases of various congenital heart defects. The data available on this subject in the literature were compared with those obtained in the present study. 19 references, including 2 German, 2 Hungarian, and 15 Western.

1/1

HOLLO, Janos, dr., műegyetemi tanár

Scientific communications prepared by the Faculty of the Food
Industry members, College of Chemical Engineering, Prague, 1957.
Elelm ipar 11 no.5/6:125-126 Ag '57.

"APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618110015-8

HOLLO, Janos, dr., műegyetemi tanár

Review of the 1956 Yearbook of the Leningrad Research Institute
for Hydrolysis and Sulphite Alcohol Industry. Fémel ipar II
no.11/12:271-272 D*57

APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618110015-8"

SZEJTLI, Jozef, dr.; HOLLO, Janos, dr.; KOMLOS, Sandor; GANTNER,
Gyulae; HUSZAR, Jozsef; TOTH, Mihalyne

Laundry starching. Pt. 4. Magy textil 16 no. 2:78-80
F '64.

1. Budapesti Muszaki Egyetem (for Szejtli and Hollo).
2. Fovarosi atyelat Vallalat (for Komlos).

"APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618110015-8

HOLLOS, Jozsef

Cylinder grinding. Munka 15 no.4:40 Ap '65.

1. "Szerszamgepipar", Budapest.

APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618110015-8"

HOLLO, JOZSEF

RICHTER, Andras, dr.; technikai munkatars: Kiss, Istvanne, dr.;
Hollo, Jozsef

Behavior of the diphenylamine reaction of the blood serum in
diseases of the locomotor system. Orv. hetil. 98 no.19:438-
491 12 May 57.

1. Az Orszagos Reuma es Furdougyi Intezet (igazgato:
Dubovitz, Denes, dr.) es az Orszagos Balneoclogiai Kutato
Intezet (Tudomanyos vezeto: Schulhof, Odon, dr.) kozleménye.
(JOINTS, dis.

degenerative & inflammatory, diag., blood phenylaniline
test (Hun))

(ANILINE DYES
phenylaniline blood test in degenerative & inflammatory
joint dis. (Hun))

HOLLO, Lajos

Various characteristics of labor productivity in railroad
operation. Vasut 14 no. 4:10-12 Ap '64.

"APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618110015-8

HOLLO, Lajos

Experiences in using the technical development fund. Vasut 14
no.12;6--8 D '64.

APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618110015-8"

HOLLO, Lajos

Experiences in 1951 in the use of the technical development fund.
Vasut 12 no.3;5-6 Mr '62.

"APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618110015-8

HOLLO, Lajos

Economic and technical planning of investments, Vasut, 13
no.1:5-7 30 Ja '63.

APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618110015-8"

"APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618110015-8

HOLLO, La138

Shortcomings in railroad standardization. Vausut 12 no,8.
5-6 25 Ag :62.

APPROVED FOR RELEASE: 09/21/2001

CIA-RDP86-00513R000618110015-8"

HOLLO, Lajos

Railroad investments during the period of the second five-year
plan. Vasut 13 no.4:3-5 Ap '63.

ACC NR: AP7003588 (Av) SOURCE CODE: HU/9001/66/007/004/01.17/6103

AUTHOR: Hollo, Lajos; Vero, Jozsef

ORG: none

TITLE: New investigations regarding variations in the Earth's electromagnetic field and sun-physics data, recurring at 27-day intervals

SOURCE: Magyar geofizika, v. 7, no. 4, 1966, 157-162

TOPIC TAGS: magnetic field, magnetic field intensity, Earth magnetic field, alternating magnetic field, sunspot, sunspot cycle, telluric current, astronomic observatory, telluric current reading

ABSTRACT: The authors compared data based on velocity readings of telluric currents at the Nagycenk Observatory [Hungary] during 1960—1962 with readings made during 1957—1959. They found a significant change in the degree of correlation. This seemed to confirm that during periods of low solar activity and gradually starting magnetic storms pulsation shows increasing periodicity. The readings also showed that pulsations which do not depend on magnetic activity have a lesser

Card 1/2

ACC NR: AP7003588

tendency to recur at 27-day periods. The paper was presented in a lecture on
24 February 1964. Orig. art. has: 3 figures and 4 tables. [KS]

SUB CODE: 08/SUBM DATE: none/ORIG REF: 001/OTH REF: 002/

Card 2/2

HOLLO, M. GY.

Distr: 4E2c(m)

- ① ✓ A new interpretation of the substructure of electropolished
aluminum surfaces. M. Gy. Holló. Hungarian Acad. Sci.
Budapest, Hungary. J. Electroanal. Chem., 1979, 10, 283-290. The English Elec-
troanal. Chem. Series, Vol. 10, No. 1, 1979, p. 283-290. ISSN 0022-0833. The paper discusses the
substructure of electropolished aluminum surfaces. It is shown that the observed
hexagonal substructure is the result of the anisotropy of mutual
soin and oxidin rate evolved on Al surfaces, both detd. by
grain orientation. The scale and character of voltage dependence of the substructure depends on the relative dissolving
and oxidizing power of the bath. Under conditions of
anodic oxidn. the size-voltage function is linear and the
formed film corresponds to the scheme of cell structure given
by Keller, et al. (Cd. 48, 468a). C. W. Schmid

3
1. M. Gy. Holló